x sea sector se through 10/31/2002 OMB 0651-0032 Approved U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE er the Pay work Reduction of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control numbe CL000280 Attorney Docket No. Francis KALUSH et al. PATENT APPLICATION First Inventor TRANSMITTAL ESTROGEN RECEPTOR BETA VARIANTS... Express Mail Label No. nly for new nonprovisional applications under 37 CFR 1.53(b)) Assistant Commissioner for Patents APPLICATION ELEMENTS ADDRESS TO: Box Patent Application See MPEP chapter 600 concerning utility patent application contents. Washington, DC 20231 Fee Transmittal Form (e.g., PTO/SB/17) CD-ROM or CD-R in duplicate, large table or mit an original and a duplicate for fee processing) Computer Program (Appendix) Applicant claims small entity status 8. Nucleotide and/or Amino Acid Sequence Submission 2. See 37 CFR 1.27. (if applicable, all necessary) Specification Specification [Total Pages (preferred arrangement set forth below) Computer Readable Form (CRF) on 1 diskette 3. - Descriptive title of the invention Specification Sequence Listing on: - Cross Reference to Related Applications CD-ROM or CD-R (2 copies); or - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, (98 pages) 11. 🔼 paper or a computer program listing appendix c. X Statements verifying identity of above copies - Background of the Invention - Brief Summary of the Invention ACCOMPANYING APPLICATION PARTS - Brief Description of the Drawings (if filed) - Detailed Description Assignment Papers (cover sheet & document(s)) - Claim(s) 37 CFR 3.73(b) Statement Power of - Abstract of the Disclosure (when there is an assignee) Attorney 4 English Translation Document (if applicable) Total Sheets Drawing(s) (35 U.S.C. 113) 4 Copies of IDS Information Disclosure 5. Oath or Declaration [Total Pages Citations Statement (IDS)/PTO-1449 Preliminary Amendment Newly executed (original or copy) Copy from a prior application (37 CFR 1.63 (d)) a. Return Receipt Postcard (MPEP 503)

b. (for continuation/divisional with Box 18 compléted) (Should be specifically itemized) Certified Copy of Priority Document(s) (if foreign priority is claimed) DELETION OF INVENTOR(S) F Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR Nonpublication Request under 35 U.S.C. 122 16. 1.63(d)(2) and 1 33(b). (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. [X](3 pages) €. Application Data Sheet, See 37 CFR 1.76 Other: copy of Notice to File Missing Parts 48. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No :____ Prior application information For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts 19. CORRESPONDENCE ADDRESS 25748 Customer Number or Bar Code Label Correspondence address below Name Address State Zip Code City Telephone Country Fax Justin D. Karjala, Reg No. 43,704 Name (Print/Type) Registration No. (Attorney/Agent) October 9, 2001

Burden Hour Statement This form is estimated to take 0.2 hours to complete Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

PTO/SB/17 (10-01)

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FEE TRANSM for FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

998.00

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AITT A I	Complete if Known						
IITTAL	Application Number	09/768,185					
102	Filing Date	01/24/2001					
02	First Named Inventor	Francis KALUSH et al.					
al revision.	Examiner Name						
	Group Art Unit						
s) 1998.00	Attorney Docket No.	CL000280					

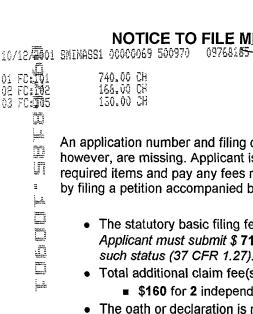
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I	Applicant claims small entity status.							139	130	139	130	Non-English specification	
See 37 CFR 1.27							147	2,520	147	2,520	For filing a request for ex parte reexamination		
] 2	2.	Check C Credit card Money Cothor						112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
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			510		255	Plant filing fee	-	119	320	219	160	Notice of Appeal	
4			740	208		Reissue filing fee		120	320	220	160	Filing a brief in support of an appeal	
			160	214		Provisional filing fee		121	280	221	140	Request for oral hearing	
							740.00	138	1,510	138	1,510	Petition to institute a public use proceeding	
		SUBTOTAL (1) (\$) 740.00						140	110	240	55	Petition to revive - unavoidable	
1	2. EXTRA CLAIM FEES						from	141	1,280	241	640	Petition to revive - unintentional	
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ĺ		ode 03	(\$) 18	Code 203	• (\$) 9	Claims in excess of 2	20	581	40	581	40	Recording each patent assignment per property (times number of properties)	40.00
			84 80	202 204	42 140	Independent claims i		146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
			84	209	42	** Reissue independ over original paten	ent claims	149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
	1	10	18	210	9	** Reissue claims in		179	740	279	370	Request for Continued Examination (RCE)	
	and over original patent							169	900	169	900	Request for expedited examination of a design application	
	SUBTOTAL (2) (\$) 168.00							Othe	er fee (s	specify	y)		
L	**or number previously paid, if greater; For Reissues, see above						sues, see above	*Re	duced b	y Bas	sic Filing	g Fee Paid SUBTOTAL (3) (\$) 10	090.00

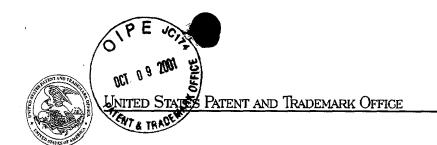
Complete (if applicable) SUBMITTED BY Registration No. (Attorney/Agent) Telephone Name (Print/Type) 43,704 240-453-3812 Justin D. Karjala 10/09/2001 Signature

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement. This form is estimated to take 0.2 hours to complete Time will vary depending upon the needs of the individual case Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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COMMISSIONER FOR PATENTS UNITED STATES PATENT AND TRADEMARK OFFICE WASHINGTON, D.C. 2023I www.uspto.cov

APPLICATION NUMBER FILING/RECEIPT DATE FIRST NAMED APPLICANT ATTORNEY DOCKET NUMBER CL000280

09/768.185 01/24/2001 Francis Kalush

CONFIRMATION NO. 1938

FORMALITIES LETTER

OC000000006062872

25748 CELERA GENOMICS CORP. ATTN: ROBERT A. MILLMAN, PATENT DIRECTOR 45 WEST GUDE DRIVE C2-4#20 ROCKVILLE, MD 20850

Date Mailed: 05/10/2001

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

740.00 CH 168.00 CH 150.00 CH

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given TWO MONTHS from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing. Applicant must submit \$ 710 to complete the basic filing fee and/or file a small entity statement claiming such status (37 CFR 1.27).
- Total additional claim fee(s) for this application is \$160.
 - \$160 for 2 independent claims over 3.
- The oath or declaration is missing. A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 1000.
- This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c) Applicant must provide an initial paper or compact disc copy of the "Sequence Listing", as well as an amendment directing its entry into the application and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000).
- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the





content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

For questions regarding compliance to these requirements, please contact:

- For Rules Interpretation, call (703) 308-4216
- To Purchase Patentin Software, call (703) 306-2600
- For Patentin Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

A copy of this notice <u>MUST</u> be returned with the reply.

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Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Francis KALUSH et al.

Art Unit:

Serial No. 09/768,185

Examiner:

Filed: January 24, 2001

Atty. Docket: CL000280

For: ESTROGEN RECEPTOR BETA VARIANTS AND

METHODS OF DETECTION THEREOF

Submission Of Sequence Listing Under 37 CFR § 1.821(a)

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

In response to RAW SEQUENCE LISTING ERROR REPORT, and in compliance with 37 C.F.R. § 1.821(a), applicants submit the computer readable copy of the Sequence Listing.

The errors have been corrected as following,

- 1) Replaced with current application number,
- 2) Replaced with current filing date,
- 3) No. of Seq input at <160> is 3.

In accordance with 37 C.F.R. § 1.821(f), the paper copy of the Sequence Listing (see the specification) and the computer readable copy of the Sequence Listing submitted herewith in the above application are the same.

It is respectfully believed that this application complies with the Sequence Listing requirements and is now in condition for processing.

Respectfully submitted,

CELERA GENOMICS

Date: October 9, 2001

Justin D. Karjala, Reg No. 43,704

Celera Genomics Corporation 45 West Gude Drive, C2-4#20

Rockville, MD 20850 Tel: 240-453-3067 Fax: 240-453-3084